

**Abstract**

A 1½ D probe is used in acoustic Doppler blood flow imaging to accurately determine the position of blood vessel in three dimensions. The 1½ D probe has closely spaced elements in the  $x$  direction and widely spaced elements in the  $y$  direction. Doppler power measurements are used to determine the  $y$  position of the blood vessel to an accuracy better than achieved by prior art techniques.

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